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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2016-11-28-01** **Date: 29/11/2016**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in ward no.06, Byatarayanapura sub division.
Agency	:	Sri.P.Hemanth (Soorya Creaters), #109/110, 4th Cross, 6th main, Vivekananda Road, Balaji layout, Nagashettyhalli, Sanjaynagara, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/48/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-11-16
Sample ID No	:	2016-11-28-01/01
Customer ID	:	Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

AE ward No 6 ಸಮುದಾಯ ಭವನ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Date of test : 29/11/2016

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	22/11/2016	29/11/2016	149.85 X 150.44 X 150.23	22543	8.158	390.0	17.3	17.3
2	Roof Concrete	M20	22/11/2016	29/11/2016	150.47 X 150.44 X 149.82	22637	8.135	396.1	17.5	
3	Roof Concrete	M20	22/11/2016	29/11/2016	150.37 X 150.28 X 150.49	22598	8.152	386.4	17.1	

Note:
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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2016-11-28-01** **Date: 20/12/2016**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in ward no.06, Byatarayanapura sub division.
Agency	:	Sri.P.Hemanth (Soorya Creaters), #109/110, 4th Cross, 6th main, Vivekananda Road, Balaji layout, Nagashettyhalli, Sanjaynagara, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/48/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	28-11-16
Sample ID No	:	2016-11-28-01/02
Customer ID	:	Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

AE Ward No 6

Date of test : 20/12/2016

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	22/11/2016	20/12/2016	148.32 X 150.44 X 150.98	22313	8.158	511.0	22.9	23.5
2	Roof Concrete	M20	22/11/2016	20/12/2016	150.44 X 150.63 X 151.24	22661	8.135	546.1	24.1	
3	Roof Concrete	M20	22/11/2016	20/12/2016	150.47 X 150.35 X 150.48	22623	8.152	531.6	23.5	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2016-09-23-01** **Date: 26/09/2016**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in ward no.06, Byatarayanapura sub division.
Agency	:	Sri.P.Hemanth (Soorya Creaters), #109/110, 4th Cross, 6th main, Vivekananda Road, Balaji layout, Nagashettyhalli, Sanjaynagara, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/48/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-09-16
Sample ID No	:	2016-09-23-01/01
Customer ID	:	Footing & Plingth Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/09/2016

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing & Plingth Concrete	M20	19/09/2016	26/09/2016	149.85 X 150.22 X 149.88	22510	8.138	391.7	17.4	17.7
2	Footing & Plingth Concrete	M20	19/09/2016	26/09/2016	150.51 X 150.20 X 149.55	22607	8.155	400.1	17.7	
3	Footing & Plingth Concrete	M20	19/09/2016	26/09/2016	152.00 X 149.15 X 149.88	22671	8.201	410.3	18.1	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2016-09-23-01** **Date: 17/10/2016**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in ward no.06, Byatarayanapura sub division.

Agency : Sri.P.Hemanth (Soorya Creaters), #109/110, 4th Cross, 6th main, Vivekananda Road, Balaji layout, Nagashettyhalli, Sanjaynagara, Bangalore-94

Customer's Reference : BBMP/EE/BTP/WO/48/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-09-16

Sample ID No : 2016-09-23-01/02

Customer ID : Footing & Plingth Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/10/2016

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing & Plingth Concrete	M20	19/09/2016	17/10/2016	149.35 X 151.44 X 150.28	22618	8.154	529.3	23.4	23.6
2	Footing & Plingth Concrete	M20	19/09/2016	17/10/2016	150.44 X 149.87 X 150.22	22546	8.163	520.8	23.1	
3	Footing & Plingth Concrete	M20	19/09/2016	17/10/2016	149.87 X 150.37 X 151.22	22536	8.174	545.4	24.2	

Note:

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2016-10-19-01** **Date: 22/10/2016**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in ward no.06, Byatarayanapura sub division.
Agency	:	Sri.P.Hemanth (Soorya Creaters), #109/110, 4th Cross, 6th main, Vivekananda Road, Balaji layout, Nagashettyhalli, Sanjaynagara, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/48/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-10-16
Sample ID No	:	2016-10-19-01/01
Customer ID	:	Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/10/2016

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	15/10/2016	22/10/2016	150.11 X 150.72 X 149.82	22625	8.198	409.5	18.1	17.5
2	Column Concrete	M20	15/10/2016	22/10/2016	150.41 X 149.72 X 151.55	22519	8.152	389.6	17.3	
3	Column Concrete	M20	15/10/2016	22/10/2016	149.32 X 149.52 X 150.44	22326	8.175	379.5	17.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2016-10-19-01** **Date: 12/11/2016**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in ward no.06, Byatarayanapura sub division.

Agency : Sri.P.Hemanth (Soorya Creaters), #109/110, 4th Cross, 6th main, Vivekananda Road, Balaji layout, Nagashettyhalli, Sanjaynagara, Bangalore-94

Customer's Reference : BBMP/EE/BTP/WO/48/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-10-16

Sample ID No : 2016-10-19-01/02

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/11/2016

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	15/10/2016	12/11/2016	149.82 X 150.22 X 150.64	22506	8.142	526.6	23.4	23.7
2	Column Concrete	M20	15/10/2016	12/11/2016	150.31 X 149.87 X 150.44	22527	8.199	533.9	23.7	
3	Column Concrete	M20	15/10/2016	12/11/2016	150.49 X 149.82 X 150.19	22546	8.115	538.9	23.9	

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TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	**CP-2016-09-09-03** **Date: 16-09-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in ward no.06, Byatarayanapura sub division.
Agency	:	Sri.P.Hemanth (Soorya Creaters), #109/110, 4th Cross, 6th main, Vivekananda Road, Balaji layout, Nagashettyhalli, Sanjaynagara,
Customer's Reference	:	BBMP/EE/BTP/WO/48/2016-17
Source of sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-09-16
Sample ID No	:	2016-09-09-03/01
Identification Mark on Brick	:	B.R Brick
Reference to BIS codes	:	IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	10-09-16

AS wall No 6

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	190.25	90.22	17164	98.2	5.7	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	190.22	90.12	17143	99.4	5.8	
3	190.42	90.54	17241	90.3	5.2	
4	190.44	90.77	17286	95.1	5.5	
5	190.52	89.98	17143	97.7	5.7	
Average of 5 bricks					**5.6**	

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Lab ID : **CP-2016-09-09-03** **Date: 16-09-16**

Sample ID No : **2016-09-09-03/01**

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	1.075	1.165	8.4	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	1.068	1.176	10.1	
3	1.006	1.106	9.9	
4	1.076	1.175	9.2	
5	1.075	1.1868	10.4	
Average Water Absorption(%)			9.6	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	190.18	90.98	17303	Slight	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes.
2	190.98	90.18	17223	Slight	
3	190.18	90.39	17190	Slight	
4	190.19	90.98	17303	Slight	
5	190.13	90.19	17148	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(a)
1	Length	3810	3720 to 3880 mm
2	Width	1785	1760 to 1840 mm
3	Height	1790	1760 to 1840 mm

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2016-09-09-03** **Date: 11-09-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in ward no.06, Byatarayanapura sub division.
Agency	:	Sri.P.Hemanth (Soorya Creaters), #109/110, 4th Cross, 6th main, Vivekananda Road, Balaji layout, Nagashettyhalli, Sanjaynagara, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/48/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-09-16
Sample ID No	:	2016-09-09-03/02
Sample Type	:	Indus
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	10-09-16

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Indus	Fe500	8	0.392	512	628	20.0%	Satisfactory	Satisfactory
2	Indus	Fe500	10	0.615	528	655	20.0%	Satisfactory	Satisfactory
3	Indus	Fe500	12	0.887	548	673	21.0%	Satisfactory	Satisfactory
4	Indus	Fe500	16	1.581	572	690	20.0%	Satisfactory	Satisfactory
5	Indus	Fe500	20	2.472	589	708	19.5%	Satisfactory	Satisfactory
7	Indus	Fe500	25	3.852	601	715	19.0%	Satisfactory	Satisfactory
8	Indus	Fe500	32	6.313	613	728	18.0%	Satisfactory	Satisfactory

AE ward No 6

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2016-08-29-02** **Date: 01-09-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in ward no.06, Byatarayanapura sub division.
Agency	:	Sri.P.Hemanth (Soorya Creaters), #109/110, 4th Cross, 6th main, Vivekananda Road, Balaji layout, Nagashettyhalli, Sanjaynagara, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/48/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-16
Sample ID No	:	2016-08-29-02/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	30-08-16

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.32	–
2	Finess by Air permeablity method (m^2/kg, Min)	278.9	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0 mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2016-08-29-02** **Date: 27-09-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in ward no.06, Byatarayanapura sub division.
Agency	:	Sri.P.Hemanth (Soorya Creaters), #109/110, 4th Cross, 6th main, Vivekananda Road, Balaji layout, Nagashettyhalli, Sanjaynagara, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/48/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-16
Sample ID No	:	2016-08-29-02/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	30-08-16

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Page 1/1
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2016-08-29-02** **Date: 01-09-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in ward no.06, Byatarayanapura sub division.
Agency	:	Sri.P.Hemanth (Soorya Creaters), #109/110, 4th Cross, 6th main, Vivekananda Road, Balaji layout, Nagashettyhalli, Sanjaynagara, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/48/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	29-08-16
Sample ID No	:	2016-08-29-02/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	29-08-16

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	152	152	1.0	99.0	90-100
3	20 mm	4933	5085	33.9	66.1	30-70
4	10 mm	7192	12277	81.8	18.2	10-35
5	4.75 mm	2248	14525	96.8	3.2	0-5
6	Pan	475	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2016-08-29-02** **Date: 01-09-16**

Sample ID No : 2016-08-29-02/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.9	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.21	–

Note:
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R KARTHIK RECHAN
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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2016-08-29-02** **Date: 01-09-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in ward no.06, Byatarayanapura sub division.
Agency	:	Sri.P.Hemanth (Soorya Creaters), #109/110, 4th Cross, 6th main, Vivekananda Road, Balaji layout, Nagashettyhalli, Sanjaynagara, Bangalore-94
Customer Reference	:	BBMP/EE/BTP/WO/48/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-16
Sample ID No	:	2016-08-29-02/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	29-08-16

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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	217	217	4.3	95.7	90-100
3	10 mm	2517	2734	54.7	45.3	25-55
4	4.75 mm	1981	4715	94.3	5.7	0-10
5	Pan	285	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2016-08-29-02** **Date: 01-09-16**

Sample ID No : 2016-08-29-02/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.7**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.3**	
3	Specific Gravity	**2.63**	–
4	Bulk Density(Loose) (Kg/l)	**1.51**	–
5	Bulk Density(Compacted) (Kg/l)	**1.57**	–
6	Water Absorption(%)	**0.19**	–
7	Aggregate crushing Value(%)	**22.4**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**23.1**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2016-08-29-02** **Date: 01-09-16**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste collection center) in ward no.06, Byatarayanapura sub division.
Agency	:	Sri.P.Hemanth (Soorya Creaters), #109/110, 4th Cross, 6th main, Vivekananda Road, Balaji layout, Nagashettyhalli, Sanjaynagara, Bangalore-94
Customer's Reference	:	BBMP/EE/BTP/WO/48/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-08-16
Sample ID No	:	2016-08-29-02/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	29-08-16
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	72	72	7.2	92.8	90-100	90-100	90-100	95-100
3	2.36 mm	131	203	20.3	79.7	60-95	75-100	85-100	95-100
4	1.18 mm	224	427	42.7	57.3	30-70	55-90	75-100	90-100
5	600 micron	203	630	63.0	37.0	15-34	35-59	60-79	80-100
6	300 micron	142	772	77.2	22.8	5-20	8-30	12-40	15-50
7	150 micron	173	945	94.5	5.5	0-10	0-10	0-10	0-15
8	Pan	55	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2016-08-29-02** **Date: 01-09-16**

Sample ID No : 2016-08-29-02/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.91	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	5.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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AE Work No 6

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ.ಬ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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R KARTHIK RECHAN
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Quality Manager

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